

CLAIMS:

1. An implantable medical device comprising:
a plurality of interconnected modules, each of the modules comprising a housing;
an overmold that at least partially encapsulates each of the housings; and
a motion reduction element within the overmold to reduce relative motion
between at least two of the modules.
2. The implantable medical device of claim 1, wherein the motion reduction element
is located within the overmold between two of the modules.
3. The implantable medical device of claim 1, wherein the motion reduction element
is coupled to at least one of the modules.
4. The implantable medical device of 1, wherein the overmold comprises a first
component that at least partially encapsulates each of the housings and second and third
components that are located adjacent to side surfaces respective ones of the housings, and
at least one of the second and third components comprises the motion reduction element.
5. The implantable medical device of claim 4, wherein the first component
comprises an elastomeric material, and the second and third components comprises a
non-elastomeric material.
6. The implantable medical device of claim 4, wherein the motion reduction element
comprises a first motion reduction element that protrudes from the second component of
the overmold, the implantable medical device further comprising a second motion
reduction element that protrudes from the third component of the overmold, wherein first
and second motion reduction elements interact to reduce relative motion between the
modules associated with the second and third components.
7. The implantable medical device of claim 1, wherein the motion reduction element
comprises a wire-like element.

8. The implantable medical device of claim 1, wherein the motion reduction element comprises a fabric.
9. The implantable medical device of claim 1, wherein the motion reduction element comprises at least one of a cement, a polymer, and a shape memory alloy.
10. The implantable medical device of claim 1, wherein the motion reduction element comprises a fiber.
11. The implantable medical device of claim 1, wherein the motion reduction element comprises at least two rigid members coupled together with a mechanical moving element.
12. The implantable medical device of claim 11, wherein the mechanical moving element is a ball and socket element.
13. The implantable medical device of claim 11, wherein the mechanical moving element is a rod and slot element.
14. The implantable medical device of claim 11, wherein the mechanical moving element is a geared hinge element.
15. The implantable medical device of claim 11, wherein the mechanical moving element includes a locking element to permit the at least two rigid members to be positioned into a desired location and to permit the locking element to retain the mechanical moving elements in the desired position.
16. The implantable medical device of claim 15, wherein the locking element is an insertable pin element.

17. The implantable medical device of claim 15, wherein the locking element is an adhesive element.
18. The implantable medical device of claim 1, wherein the implantable medical device comprises an implantable neurostimulator.
19. An implantable medical device comprising:
 - a plurality of interconnected modules, each of the modules comprising a housing;
 - an overmold that at least partially encapsulates each of the housings; and
 - means within the overmold for reducing relative motion between at least two of the modules.
20. The implantable medical device of claim 19, wherein the means for reducing relative motion is located within the overmold between two of the modules.
21. The implantable medical device of claim 19, wherein the means for reducing relative motion is coupled to at least one of the modules.
22. The implantable medical device of 19, wherein the overmold comprises a first component that at least partially encapsulates each of the housings and second and third components that are located adjacent to side surfaces respective ones of the housings, and at least one of the second and third components comprises the means for reducing relative motion between modules.
23. The implantable medical device of 19, wherein the means for reducing relative motion comprises:
 - means for permitting motion between at least two of the modules to a configuration; and
 - means for locking the modules in the configuration.

24. The implantable medical device of claim 19, wherein the implantable medical device comprises an implantable neurostimulator.
25. An implantable medical device comprising:
a plurality of interconnected modules, each of the modules comprising a housing;
an overmold that at least partially encapsulates each of the housings;
a coupling module to couple at least two of the modules, wherein the coupling module is flexible to allow at least one degree of relative motion between the modules;
and
a motion reduction element within the overmold to reduce relative motion between the at least two of the modules in the at least one degree.
26. A method comprising:
manipulating a modular implantable medical device into a configuration; and
locking the modular implantable medical device within the configuration.
27. The method of claim 26, wherein locking the modular implantable medical device within the configuration comprises inserting one of a pin element and an adhesive into the modular implantable medical device.